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Nicaragua: Oil Problems and Prospects

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An Intelligence Assessment

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May 1985

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Nicaragua:	Oil_	Problems
and Prospec	ets	

An Intelligence Assessment

This paper was prepared by Office of African and Latin American Analysis, and		25X1
Office of Soviet Analysis, with	25X1	25X1
Issues, Office of African and Latin American Analysis, Office of	20/1	25X1 25X1
Imagery Analysis.		25X1
Comments and queries are welcome and may be directed to the Chief, Middle American-Caribbean		
Division, ALA		25X1

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	Nicaragua: Oil Problems	
	and Prospects	25
Key Judgments Information available as of 15 April 1985 was used in this report.	Nicaragua's dependence on crude oil i disruptions have resulted in serious fue Managua faces the prospect of further	el shortages over the past year. , potentially critical shortfalls even
	as its dependence on Soviet deliveries	
	likely to continue to grow.	
	NT	.12
	Nicaragua has no indigenous petroleur process only 80 percent of the country have been unable to manage fuel supp Nicaragua's two traditional oil supplied debt payments and Mexico earlier this regional policies. In February, the refin for lack of crude, creating the worst entered to the country of the cou	's oil requirements. The Sandinistas oly smoothly since the withdrawal of ers—Venezuela in 1982 for overdue s year to give greater balance to its nery was forced to close for a month energy crisis in recent memory,
	according to US Embassy reporting.	25
	With Venezuela out of the supply pict peak 1983 levels, the Soviets matched supplier last year, providing some 6,00 a sharp departure from typical comme permitted the financially pressed Sand payments. We believe the Soviets have deliveries to Nicaragua by attempting resume or increase shipments, by tryin and by attempting to use Cuba as a billimited success, and, consequently, we Sandinistas' principal suppliers for at	Mexico as Nicaragua's primary oil 0 barrels per day (b/d). Moreover, in recial policy, Moscow appears to have linistas to run arrears on their oil tried to reduce costs associated with to convince traditional suppliers to ag to work out new oil swap deals, roker. These efforts have had only expect the Soviets will remain the
	Even if the Soviets supplied all of Nice 14,000 b/d—this would amount to less tal net oil exports. Given the political a fuel supplies for the Sandinistas, we be provide Nicaragua with the bulk of its lenient repayment schedule. Even with Moscow's logistic problems in sending create occasional fuel shortages for the	s than 0.5 percent of the USSR's to- and military importance of adequate elieve the USSR will continue to oil needs and allow Managua a very a such a commitment, however, crude oil directly to Nicaragua may
	Even if there are no major petroleum	import problems, we believe
	Nicaragua will suffer periodic fuel sho	
	the poor condition of its refining and d	
		nd tanker truck transportation 25
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	network has no backup, and any significant system failure will result in ex-	
	tended supply disruptions. In addition, Corinto—the only port capable of handling large tanker loads of imported refined products—can store one	
•	month's supply of the products needed to satisfy Nicaragua's demand. The necessity of moving oil from the refinery on the west coast to the Caribbean	•
	coast also places an additional burden on the country's limited number of tanker trucks.	25X1
	Keeping the refinery operative will also be a major challenge for the	
	Sandinistas. Because Managua has withheld all profits from the plant's foreign owners since 1981, the owners have not maintained the refinery.	
	Lack of adequate repairs since early 1981 has reduced the refinery's already insufficient capacity, forcing the Sandinistas to rely increasingly	
	on foreign suppliers to meet their refined product demand.	25 X 1
·	With the Sandinistas' announced goal to eliminate the counterinsurgency this year, we expect military priorities to further divert oil supplies from	
	the civilian sector. Currently, the Army is allocated the bulk of the petroleum used by government agencies, which is normally 80 percent of	
	available supplies. As a result of the diversion, industrial and agricultural output will continue to decline and erode living standards further.	25X1
	If mechanical and crude supply problems—or gross Sandinista misman- agement—should force the refinery to shut down for two months or longer,	
	we predict that activity in the industrial sector of Nicaragua's economy as well as selected portions of agriculture would be sharply curtailed. An	
	extended petroleum shortage would virtually eliminate public transporta- tion, disrupt food distribution, and further weaken public confidence in the	
	ability of the Sandinista leadership. It would also indirectly affect Managua's already precarious financial condition. Logistic problems would	
	also develop in the military. In the event of an extended supply disruption, we believe that the Sandinistas' Soviet and Cuban allies would have to	
	greatly increase aid in the form of repairs to the supply system and direct product imports to keep the military functioning at minimal operational	,
	levels.	25X1

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Scope Note	This assessment focuses on a single aspect of the deteriorating situation in Nicaragua: the economy's vulnerability to oil supply and distribution interruptions. The assessment analyzes Nicaragua's oil import requirements, chronicles the Sandinistas' growing dependence on the Soviet Union, and examines deficiencies in the petroleum infrastructure.

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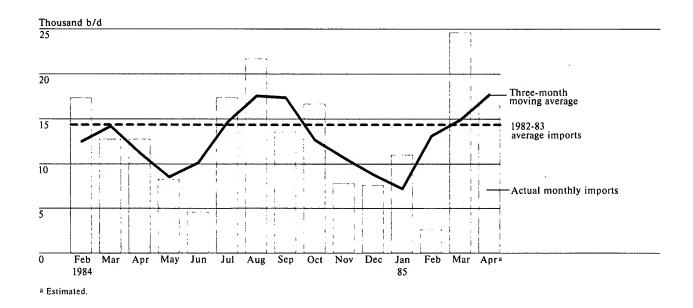
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В.	The Military's Thirst for Oil and Impact on the Civilian Sector	13

anitized Copy Approved for Release 2011/01/07	Secret	25 X 1
Nicaragua: Oil Problems and Prospects		25X′
Introduction	A region of trade statistics assume to 11' of	
Nicaragua's oil supply problems have worsened in the past year. After experiencing five serious oil shortages since mid-1984, a lack of crude forced Nicaragua to	A review of trade statistics, government publications, and industry reporting suggests that during the 1970s, Nicaragua's demand for crude oil and petroleum products increased steadily from around 10,600 barrels per day (b/d) in 1971 to about 15,000 b/d in	
close its only refinery in February, marking the worst oil crisis in 20 years, (see figure 1). The US Embassy reports public transportation was nearly at a standstill during late February	1977. Since then apparent consumption has remained relatively constant at an average rate of 14,000 b/d. Reduced economic activity and private-sector rationing have held consumption growth in check.	25X′
and early March after almost all gas stations were shut down and hundreds of cars were abandoned. The absence of petroleum also disrupted industry and		25 X 1
agriculture: there was no oil for farm and other types of machinery and no fuel to transport workers during the critical final	The Sandinistas' actual hard currency costs, however, have been greatly cushioned by concessional financing from first its Latin American and later its Soviet	25X′
phase of Nicaragua's coffee and cotton harvest. Based on press and US Embassy reports on the severity of the shortages, we believe the military also experienced spot shortages, even though its operational activity levels suggest it was largely shielded from the supply disruptions.	suppliers. Under the terms of the San Jose Accord, beginning in August 1980, Mexico and Venezuela offered a stable supply of subsidized crude oil to all Central American and Caribbean countries, including Nicaragua. The agreement, as announced by Mexico City and Caracas, provided below market interest rate	25X ²
This paper analyzes Nicaragua's petroleum requirements and examines supply relationships with other Latin American countries and the USSR. It also discusses petroleum infrastructure problems, including distribution and refining capabilities, and the impact of oil supply difficulties on Nicaragua's econo-	loans to cover 20 percent of any oil purchase. In Managua's case, Mexico decided to sweeten the pot by extending the offer of low interest rate terms to all the oil it delivered to the Sandinistas. Despite this favorable treatment, problems began to develop. In mid-1982 Venezuela stopped deliveries under this	
my this year.	program because the Sandinistas had fallen behind in their payment obligations.	25X ² 25X ²
Petroleum Requirements Nicaragua has no indigeñous crude oil resources and	though Mexico received only occasional token payments, it initially increased deliveries to take up the slack for what we believe were political reasons.	
its one refinery is capable of processing only 80 percent of the country's petroleum product needs. As	virtually all of Nicaragua's oil requirements from mid-1982 to late	25X′
a result, Managua imports all of its crude oil and some additional petroleum products, including trans-	1983 were covered by Mexico.	25 X ′
portation fuels, kerosene, and petrochemicals. Because petroleum product reserves are low and indigenous storage capacity is limited—approximately three months for product and less than two months for crude, based on our estimates of overall demand for product and the physical size of total storage capacity—Nicaragua depends on frequent deliveries of	Mexico City's position changed in early 1984 when, according to Embassy reporting, it ordered an audit of bilateral accounts and began requiring, for the first time, partial payments on all oil deliveries. We believe	
crude and petroleum products.		25X′
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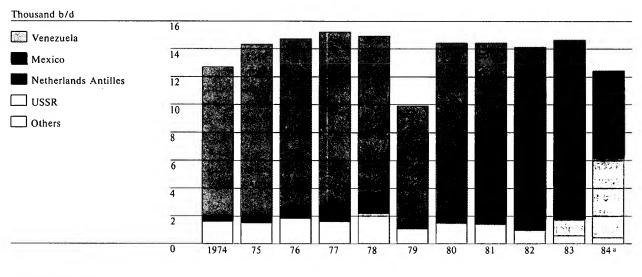
Figure 1

Nicaragua: Oil Imports, 1984-85



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Figure 2 Nicaraguan Imports of Crude Oil and Petroleum Products by Supplier, 1974-84



a Estimated.

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Mexico intended this shift to give more balance to its Central American policies, to encourage Managua to moderate its hardline position on regional issues, and to respond to increasingly vocal conservative elements in Mexico as well as concerns raised abroad. As Mexico moved to treat Nicaragua like any other customer, deliveries became less frequent and, based on press reporting, its shipments of crude oil and refined products dropped from an average of nearly 13,000 b/d in 1983 to about 6,000 b/d in 1984, almost 50 percent of Nicaragua's oil imports. So far this year, Mexico is continuing to supply some oil to
Nicaragua, we believe, to maintain its influence and
persuade Managua to retain some measure of political moderation.
To down-
play political goals, however, Mexico City has public- ly emphasized that it will not resume its role as a
long-term oil supplier until Managua pays the more
than \$500 million it owes for past shipments.

Soviets Take Up the Slack

As Mexico's role as oil supplier began to decline, the USSR stepped in to become a major actor in providing oil to the Sandinista regime. The first observed Soviet petroleum shipments to Nicaragua occurred in December 1983. Based on cargo deliveries, we calculate that, during 1984, Soviet oil shipments slightly outpaced those from Mexico (see figure 2). For the first four months of 1985, the USSR has directly provided over two-thirds of Nicaragua's oil imports and, indirectly, about 10 percent through Cuba.

In addition to assuming responsibility for the bulk of Nicaragua's oil needs, there are numerous signs that Moscow—in a marked departure from its typical commercial policy—has permitted Nicaraguan oil payments to lapse. For example, although we do not

	know the details of oil sales terms, Moscow has to	
	date required only token payment from Nicaragua in	
	the form of commodities such as cotton, coffee, and	
	other farm products. The negligible value of the	
_	countertrade shipments	25X1
	suggests that there is a large grant element	25X1
L	involved in Moscow's oil shipments.	25X1
		25X1
		20/(1
	In view of Nicaragua's precarious finan-	25X1
	cial position, the Soviets almost certainly could not	
	have entered into this deal expecting that the Sandi-	
	nistas would be able to make any significant payment	25X1
	for years to come. From Nicaragua's standpoint, the	25X1
	Soviets' willingness to supply petroleum on generous	20/(1
	payment terms has been critical to Managua, because	;
	it has enabled the Sandinistas to conserve scarce hard	
	currency for such essential imports as foodstuffs.1	
		25X1
		25X1
	Looking To Share the Burden	25X1
		20/(1
	Even though the burden on the Soviets is small—at	
	world prices, 1984 Soviet deliveries would have been	
	valued at \$60 million out of total hard currency oil	
	export earnings of around \$15 billion—Moscow is	
	apparently searching for alternate or lower-cost sup-	
	pliers to Nicaragua.	25X1
	Cuba	
	Under a Soviet-Cuban-Nicaraguan trilateral accord	
	signed in 1983, Havana assumed responsibility for	
	supplying Managua with some petroleum products	
	purchased from Caribbean sources in 1984,	25X1
		25X1
		207(1
	Last fall, Cuba purchased \$3 million worth	25X1
	of oil products from Western traders in Curacao for	
	delivery to Nicaragua. To cover Havana's costs, the	
1	-	25X1
,	Nicaragua's hard currency levels were at an alltime low in	
	February when its Minister of the Interior admitted that dollar	

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reserves were virtually nil.

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		2	25X1
Soviets diverted to Cuba a tanker of crude oil, originally destined for Nicaragua. At world prices, the Soviet crude was worth \$3-4 million more than Cuba's product purchases from Curacao, and it is possible that the balance may have been used to arrange additional petroleum deliveries to Nicaragua via Cuba. Havana has recently purchased two crude shipments from Mexico, which may allow for some-	agreement was canceled just before its scheduled departure in February, however, after Quito vetoed the sale		25X1 25X1
what higher shipments of Cuban refined products to Nicaragua despite a recent reduction in crude deliveries to Cuba from the USSR. As a temporary expedient—particularly when the Managua refinery faced shutdown—Moscow also shifted oil deliveries directly from Havana to Managua.	When the Ecuadorean deal fell through, Managua and Moscow were left to scramble for alternatives to cover oil needs for 1985.	25X1 2	25X1 25X1
	The delay, however, forced the Nicaraguans to deplete their reserves and close their refinery. The Cubans sent a shipment of refined products to alleviate growing shortages, before a	25X1 ²	25 X 1
Other Regional Suppliers To provide the amounts of oil Managua requires and save transportation costs, Moscow has also attempted to get other regional sources to supply Nicaragua, in return for Soviet deliveries elsewhere, similar to a	Soviet crude delivery in early March reopened the refinery.		25X1 25X1
quadrilateral oil swap arrangement it uses to help supply Cuba. Under that agreement, Moscow ships to one of Venezuela's West European customers an amount of oil equal to that which Caracas provides Havana	Petroleum Infrastructure Deficiencies In addition to coping with delivery uncertainties, Nicaragua has also had to deal with a petroleum infrastructure plagued by a limited distribution sys-		25X1 25X1
To seek	tem, inefficient refining capabilities, and a lack of skilled managers because of financial constraints and mismanagement,	2	25X1
April, Venezuela agreed to double the amount of crude under its quadrilateral agreement for Cuba, with their standard clause that the crude could not be	the Sandinistas are not properly maintaining plants, equipment, and transport vehicles. Transportation and Storage		25X1 25X1
diverted to Nicaragua. But the clause does not prevent products refined from the crude to be shipped to Managua. The Soviets have also had little success in obtaining oil for Nicaragua from Ecuador. In December 1984	The petroleum distribution system (see figure 3) has been particularly susceptible to disruption. the aging system has no backup, and any failure results in substantial supply disruptions. For example, all crude enters at Puerto Sandino and is piped 56 kilometers to the refinery in Mana-		25X1 25X1
the Soviets believed they had made an arrangement, in which Ecuador would supply the bulk of the Sandinistas' oil needs in 1985	gua. The crude storage tanks located at both ends of		25X1
In return, the Soviets would deliver crude for resale in Europe on Ecuador's account. Ecuador's first shipment under the	I	25X1 2	25X1 25X1 25X1
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Figure 3



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the pipeline can hold less than two months of the	Another logistic problem involves moving petroleum	
refinery's crude requirements, according to Embassy	products to Nicaragua's east coast.	25 X 1
sources. No ready alternative to the pipeline exists,	fuel is usually	25X1
although the pipeline	trucked from the refinery to the interior port of Rama	25 X 1
is still serviceable, it has not been adequately main-	and then shipped by barge to the Caribbean ports of	
tained in recent years and its pumping station needs	El Bluff, Puerto Isabel, and Puerto Cabezas, which	0.51//
refurbishing.	serve as regional distribution points. From there fuel	25 X 1
Margarer when the refinery is forced to shut down	is supplied to the fishing industry, military installations, and Nicaragua's mining sector.	0EV4
Moreover, when the refinery is forced to shut down for repairs or lack of crude—as it has been five times	tions, and inicatagua's infining sector.	25X1
in the past year for periods ranging two to three		25 X 1
weeks, according to Embassy reporting—problems		•
are compounded. Corinto, the only port that can		
handle large tanker loads of refined oil products, can		
only store a fraction of the products needed to satisfy		
Nicaraguan demands. Corinto's petroleum storage		
facilities were designed to supplement the refinery by	Nicaragua also	25X1
allowing imports of specialty products and providing	has one small tanker that makes regular deliveries of	
some additional distribution capacity. The Corinto	petroleum from Corinto through the Panama Canal to	
facilities can hold approximately one month's supply	the east coast, and also makes small shipments of	
of refined product, which sharply limits the number of	imports directly from Cuba, Panama, and Aruba,	
ships that can offload during any particular month. In	according to Embassy sources.	25X1
addition, during periods when Corinto serves as Ni-		
caragua's major petroleum product distribution point,	Refinery Deterioration	0=>
its remote location limits the extent to which trucks	Nicaragua's refinery	25 X 1
can distribute petroleum products around the country.	operates well below capacity. Before the latest shut-	
	down on 13 February, crude processing was averaging	25 X 1
To address Nicemanus's amude store so problem, the	some 5,000 b/d below its designed capacity of 15,000 b/d (see fewer 6 et and of toxt). According to industry	
To address Nicaragua's crude storage problem, the Cubans and Soviets are constructing additional stor-	b/d (see figure 6 at end of text). According to industry publications, the refinery is owned and maintained by	
age tanks east of Puerto Sandino,	Esso International (Exxon). Even though the Embassy	25 X 1
Two prefabricated	reports that the refinery is now closely regulated by	
30,000 barrel storage tanks are under construction	Petronic, the Nicaraguan state oil company, Esso	25X1
near the crude oil pipeline connecting the port with	reportedly still provides top management and techni-	
the refinery at Managua, and workers have cleared	cal advice. Because the Sandinistas have refused to	
space for at least five more tanks	allow the owner to repatriate its share of profits since	25X1
	mid-1981, however, the company has been reluctant	25X1
	to maintain the refinery and has made no improve-	
	ments or capital investment. The Sandinistas have	
	made only minimal repairs vital to keeping the plant	,
We	operative,	25X1
estimate that the construction materials observed at		25X1
the site and on a quay at Corinto are probably		
sufficient to build 15 tanks. If all the tanks were used	Indeed, Esso has tried to cut its losses by selling the	051/4
for crude oil, they would about double Nicaragua's	facility to the government.	25X1
crude storage capacity— providing about 45 days' extra supply and reducing the vulnerability to crude	however, the Sandinistas have placed the equivalent	25X1
disruptions. While the location of the tanks points to	nowever, the Sandinistas have placed the equivalent	
their intended use to improve crude oil supply flexibil-		
ity, they could also be used for petroleum product		
storage if the need arose.		25X1
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of over \$30 million in local currency of the company's unrepatriated profits into escrow accounts. The Sandinistas also postponed sales negotiations several times in recent months in an effort to delay further	Any dropoff in oil product deliveries to the agricultural or industrial sector would only further limit exports and thus hard currency earnings. Balancing these needs against military requirements would only gener-
demands by Esso for back payments.	ate additional stress on both government decision-
if a sales agreement were reached, the	makers and an already shaky distribution network
Sandinistas would require outside assistance to run	(see appendix A).
	(see appendix A).
the refinery;	In the case of an autonded shutdown at the raffnery
	In the case of an extended shutdown at the refinery,
	the Sandinistas would be forced to find alternative
	ways of bringing in refined products or increasing
Alternatively, the Sandinistas could hire technical	capacity at Corinto. Assuming the new storage capac-
services from the present owners. Although third-	ity at Puerto Sandino remained dedicated to crude oil,
round negotiations with the owners are under way, the	the fastest and least complicated option for bolstering
Nicaraguans' critical financial situation precludes	product storage, in our assessment, would be at
them from making more than nominal payment for	Corinto. Even so, for Corinto to handle all petroleum
the plant,	imports, the Sandinistas
	would need at least to double oil product storage
	capacity, improve road maintenance, and import ap-
	proximately 100 tanker trucks; the trucks alone would
Nicaragua's Oil Situation in 1985	cost nearly \$4 million. If financial and technical
	support were given by the Soviets and Cubans, indus-
Nicaragua probably will suffer periodic disruptions of	try experience indicates that the process could be
oil supplies throughout the remainder of 1985 similar	completed in as little as two to three months. Based on
to those of February-March. We expect the current	Managua's track record with the storage tanks at
state of disrepair of the refinery, pipelines, and trans-	Puerto Sandino, however, progress could be much
portation system to disrupt occasionally the process-	slower. Another relatively low cost option would be to
ing and distribution of petroleum even if there are no	refit and rededicate the Puerto Sandino storage area
unexpected crude import problems.	to petroleum products. Logistic problems would, of
	course, exist. Truck loading facilities would have to be
In our view, the economic impact of fuel shortages on	built, roads substantially improved, and the like.
Nicaraguan industry and agriculture will increase	Moreover, other complications could arise if the tanks
over time even without unusual disruptions. With	were full of crude at the time of a refinery shutdown.

If, through gross Sandinista mismanagement, mechanical failure forced the refinery to close down for two months or more, the consequences to the Nicaraguan economy would be disastrous. An extended petroleum shortage would virtually eliminate public transportation, disrupting food distribution and further weakening public confidence in the ability of the Sandinista leadership. It would also indirectly affect Managua's already precarious financial condition.

Managua's announced goal to eliminate the counterinsurgency this year, we expect military priorities to

further divert oil supplies from the civilian sector. As a result, industrial and agricultural output will contin-

ue to decline and erode living standards further.

This would be feasible but expensive,

Hydraulic problems associated with low viscosity of refined products and the crude pipeline's diameter would likely require the Sandinistas to build a new pipeline to Managua. In this case,

Puerto Sandino complex to handle refined products.

The Nicaraguans would have other options beyond

increasing storage capacity. Managua could try to use pipelines to ship oil products, by fully converting the

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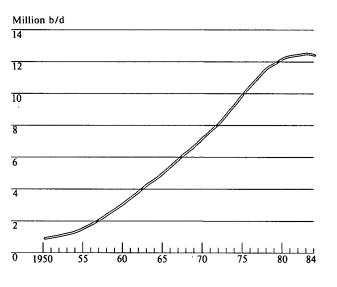
to enable the port to receive, store, and pump most refined products to Managua, we estimate the conversion would take three to five months at a minimum and cost \$5-10 million. Even then, some specialty products would still have to offload at Corinto. If on the off chance that Managua could somehow successfully retool the crude pipeline to transport refined products, it would still require a few months and several million dollars. Aside from the technical difficulties involved, the Sandinistas would have to spend more time and money reversing the process once the refinery was reopened. Regardless of the option chosen, the Sandinistas would need extensive technical and financial assistance from their allies.

Long-Range Outlook for Soviet Supplies

If given the choice, we doubt the Soviets, over the long run, would want the burden of supplying oil to such virtually nonpaying customers as Nicaragua. In our view, the recent decline in the USSR's oil production probably makes the relatively small cost of supplying oil to Nicaragua appear slightly more worrisome to Soviet planners.² In the past, the Soviets have compensated for lower world oil prices by boosting the quantity of petroleum sold for hard currency; such sales account for about half the USSR's hard currency trade earnings. The Soviets experienced problems exporting oil during the first quarter because the harsh winter weather increased domestic consumption to an unexpected level. The USSR may well see another decline in overall production this year with a concomitant drop in hard currency oil earnings. Soviet economic planners may fear that the recent production decline presages a long-term stagnation or drop (see figure 5), and may therefore become more reluctant to extend oil commitments to soft-currency customers or those that, like Nicaragua, have made only token payments. The USSR's tough choices are compounded by the large amounts of oil committed to Eastern Europe and Cuba.

Nevertheless, even though Soviet economic planners probably will be anxious to avoid a large, multiyear





commitment to Nicaragua, in our judgment the political imperative of maintaining the Sandinista regime in power will overrule economic considerations. Even if Moscow had to make up for all the oil Nicaragua consumed in its peak year—15,000 b/d in 1977—this amount would represent less than 0.5 percent of the USSR's total net oil exports and roughly 7 percent of what Moscow currently provides to Cuba.

In our view, the Soviet oil deliveries will continue to constitute the most effective direct support that Moscow has available for Managua. An adequate supply of petroleum is critical for military operations needed to keep the Sandinistas in power. At the same time, the Sandinistas' arrangements to pay for oil with future commodity swaps conserves scarce foreign exchange needed for imports of Western spare parts and equipment. Moreover, the Kremlin can reap

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propaganda dividends and strengthen its credentials as a reliable ally by advertising its role in helping the Nicaraguans overcome the adversities that Managua claims are caused by US aggression; for example, President Ortega used Ecuador's suspension of its crude oil contract to attack the United States and praise the USSR's efforts in easing the country's oil shortages.	25 X 1
On balance, we believe that, despite the financial costs, the USSR will continue to provide Nicaragua with the bulk of its oil needs and allow Managua a very lenient payment schedule to try to help the Sandinistas get through the next few difficult years. At the same time, we expect Moscow to redouble efforts to entice Venezuela and Ecuador into oil swap deals and encourage Mexico to step up its support	•

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Appendix A

The Military's Thirst for Oil and Impact on the Civilian Sector

The massive expansion and modernization of Sandinista military power has required ever larger allotments of petroleum resources. Before the revolution, based on our analysis of average fuel load factors, military defense forces burned a little less than 500 barrels of diesel fuel and gasoline each day. Since then the military has expanded nearly 10 times and it use of oil products has grown even faster.
we estimate the military is now burning at least 5,000 barrels of petroleum products each day.
The Sandinista military has jealously defended its increased fuel allocation. Experience during the past
year or so indicates that 80 percent of available fuel is supplied to the government, with about half going directly to the military to keep its equipment operational. In contrast, we estimate that before the revolution the government accounted for only about one-fourth of fuel demand with less than one-fourth of that going the military.
To assure steady fuel supplies, the military has been authorized priority drawings on civilian reserves and the Sandinistas have substantially augmented military reserve facilities. During the past two years, the Sandinistas have ordered some 200 gasoline stations throughout the country to dedicate, on a priority basis, part of their civilian storage for military use. Under the system, only designated Sandinista officials have the authority to release petroleum supplies after station reserves fall to certain minimum levels. The military makes frequent inspections to make sure their portion has not been used. during the last few years, the Sandinistas have deployed 600 new 350-barrel diesel and gasoline storag tanks mainly in northern Nicaragua. We estimate that this extra military storage capacity alone is enough to support normal military operations for about 40 days and sustain surge activities for about half that time.

Despite the military's priority, it has not been able to shield itself completely from the recent fuel shortages.

Military fuel requirements will almost surely grow further for at least the next year as the announced military buildup continues. Some 450 new trucks are scheduled to arrive in Corinto from Eastern Europe during late April alone. Despite regional condemnation for their arms buildup, the Sandinistas continue to call for the rapid addition of at least 20,000 men and more advanced weaponry to their military machine. Existing oil constraints, however, are a limiting factor in their ability to field much more equipment. In our estimation, to support the larger military the Sandinistas are calling for would require further diversion of fuel from the private sector, even more active conservation and rationing techniques, and increased petroleum imports.

The Impact of Military Diversions on the Civilian Sector

Redirection of petroleum supplies already has hit hard on the economy. We believe that in pre-Sandinista times, the private sector used almost three-fourths of all petroleum and demand centered on use in manufacturing, mining, and agriculture. We estimate that the private-sector share has now plummeted to just one-fifth or less. Part of the enormous falloff is explained by wide-ranging nationalizations—all of mining and more than one-third of manufacturing and agriculture were taken over by the Sandinistas following the revolution—but even more by reduced

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The Nicaraguan Military Buildup

Number of units (except where noted)

	Total Forces a (number of persons)	Trucks and Jeeps	Helicopters	Tanks	Other Armored Vehicles
19 July 1979	6,600	500	8	3	31
15 April 1985	65,000	4,000	25	150	200

a Includes active duty and mobilized militia/reserves.

private-sector allotments caused by military requirements. The curtailment of civilian allocations, in both the government and private sectors, has:

- Caused an alarming decrease in industrial production, as reported by the US Embassy.
- Undercut the recent key coffee and cotton harvests, according to various press reports.
- Forced the government in March to order a permanent cutback on the number of pages newspapers could print and banned Sunday editions, according to Embassy sources.
- Cut down on the electricity allocated for industrial and household uses; for the past several years the US Embassy has recorded daily scheduled power outages throughout the country.
- Made jet fuel and bunker unavailable, requiring incoming planes and ships to bring enough fuel for return trips, according to several sources.

The political ramifications of this resource diversion have been extensive. Fuel shortages are certainly one of the many reasons behind the demise of Nicaragua's private-economy. By undermining the economic power of the remaining private sector, effective political opposition has been substantially weakened and demoralized. For example, the US Embassy reports a growing sense of hopelessness among leading businessmen, who have sent at least some family members and much of their money out of the country. At the same time, the combined effect on producers and especially consumers continues to undercut popular confidence in and support for the regime. We have increasing anecdotal reporting of consumer distress, focusing on growing criticism of Sandinista policies.

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Appendix B

Civilian Petroleum Storage Facilities in Nicaragua

Facility	Number of Tanks	Current Storage Capacity (barrels)	Remarks
Port of Puerto Sandino	2 2	295,473 100,000	Crude oil and fuel oil for Point Tiscuco power plant.
Managua refinery	56	821,428	Combined crude and refined oil storage.
Port of Corinto	49	401,428	An insurgent attack on 10 October 1983 destroyed or damaged 7 tanks, reducing ca- pacity by 70,000 barrels.
Rama terminal	19	4,644	
Port of El Bluff	14	55,339	\
Port of Puerto Cabezas	4	41,428	
Puerto Isabel (Puerto Benjamin Zeladon)	3	2,467	An insurgent attack on 2 October 1983 destroyed or damaged 3 tanks, reducing capacity by 7,739 barrels.
San Juan del Sur	9	3,808	
Sandino civil facility	6	4,151	
Masachapa terminal	7	96,663	This terminal, inactive since 1974, was once the primary port of entry for refined oil products.

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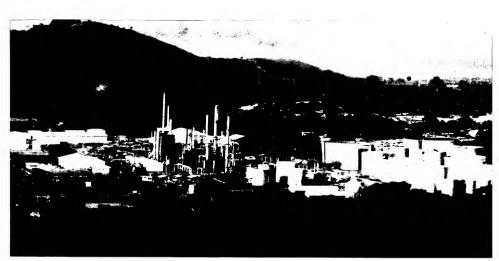


Figure 6. Nicaragua's Only Crude Oil Refinery, Managua.

Insufficient repair and maintenance have reduced this facility's output by about one-third.

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